

SUMMARY OF QUANTITIES - SUPERSTRUCTURE (PER SPAN)

SPAN	PRESTRESSED CONCRETE BEAM TYPE	ABUTMENT TO ABUTMENT						ABUTMENT TO STANDARD PIER						ABUTMENT TO STEPPED PIER									
		PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ② (LB)	(PL) FIXED BEARING ASSEMBLY ④ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)	(PL) FIXED BEARING ASSEMBLY ④ (EA)	(PL) EXPANSION BEARING ASSEMBLY ⑤ (EA)	(PL) ELASTOMERIC BEARING PADS ⑥ (EA)	PRESTRESSED CONCRETE BEAMS (TYPE ①) (LF)	CONCRETE RAIL (TR3) (LF)	STRUCTURAL STEEL (LB)	CLASS AA CONCRETE (CY)	REINFORCING STEEL ③ (LB)	(PL) FIXED BEARING ASSEMBLY ④ (EA)	(PL) EXPANSION BEARING ASSEMBLY ⑤ (EA)	(PL) ELASTOMERIC BEARING PADS ⑥ (EA)
30'	II	89.00	63.0	100	42.1	6,070	6	89.00	61.5	190	32.8	7,290	3	3	3	89.00	62.2	190	33.0	8,550	3	3	3
	B	89.00	63.0	100	41.9	6,070	6	89.00	61.5	190	32.6	7,280	3	3	3	89.00	62.2	190	32.9	8,540	3	3	3
35'	II	104.00	73.0	100	45.6	6,820	6	104.00	71.5	190	36.3	8,040	3	3	3	104.00	72.2	190	36.5	9,300	3	3	3
	B	104.00	73.0	100	45.5	6,820	6	104.00	71.5	190	36.2	8,030	3	3	3	104.00	72.2	190	36.4	9,290	3	3	3
40'	II	119.00	83.0	100	49.2	7,730	6	119.00	81.5	190	39.8	8,940	3	3	3	119.00	82.2	190	40.1	10,200	3	3	3
	B	119.00	83.0	100	49.0	7,720	6	119.00	81.5	190	39.7	8,940	3	3	3	119.00	82.2	190	39.9	10,200	3	3	3
45'	II	134.00	93.0	100	52.7	8,480	6	134.00	91.5	190	43.4	9,690	3	3	3	134.00	92.2	190	43.6	10,950	3	3	3
	B	134.00	93.0	100	52.5	8,480	6	134.00	91.5	190	43.2	9,680	3	3	3	134.00	92.2	190	43.4	10,950	3	3	3
50'	II	149.00	103.0	100	56.2	9,380	6	149.00	101.5	190	46.9	10,660	3	3	3	149.00	102.2	190	47.1	11,920	3	3	3
	B	149.00	103.0	100	56.0	9,380	6	149.00	101.5	190	46.7	10,650	3	3	3	149.00	102.2	190	47.0	11,910	3	3	3
55'	II	164.00	113.0	100	59.7	10,130	6	164.00	111.5	190	50.4	11,400	3	3	3	164.00	112.2	190	50.6	12,670	3	3	3
	B	164.00	113.0	100	59.6	10,130	6	164.00	111.5	190	50.3	11,400	3	3	3	164.00	112.2	190	50.5	12,660	3	3	3
60'	II	179.00	123.0	100	63.2	11,150	6	179.00	121.5	190	53.9	12,310	3	3	3	179.00	122.2	190	54.2	13,570	3	3	3
	C	179.00	123.0	100	67.5	11,360	6	179.00	121.5	190	56.2	12,520	3	3	3	179.00	122.2	190	56.5	13,780	3	3	3
65'	III	194.00	133.0	100	71.4	12,120	6	194.00	131.5	190	60.2	13,280	3	3	3	194.00	132.2	190	60.5	14,540	3	3	3
	C	194.00	133.0	100	71.0	12,110	6	194.00	131.5	190	59.8	13,270	3	3	3	194.00	132.2	190	60.0	14,530	3	3	3
70'	III	209.00	143.0	100	75.0	13,020	6	209.00	141.5	190	63.8	14,250	3	3	3	209.00	142.2	190	64.0	15,510	3	3	3
	C	209.00	143.0	100	74.6	13,020	6	209.00	141.5	190	63.3	14,230	3	3	3	209.00	142.2	190	63.6	15,490	3	3	3
75'	III	224.00	153.0	100	78.5	13,770	6	224.00	151.5	190	67.4	14,990	3	3	3	224.00	152.2	190	67.6	16,260	3	3	3
	C	224.00	153.0	100	78.1	13,770	6	224.00	151.5	190	66.9	14,980	3	3	3	224.00	152.2	190	67.1	16,240	3	3	3
80'	III	239.00	163.0	100	82.1	14,680	6	239.00	161.5	190	70.9	15,900	3	3	3	239.00	162.2	190	71.1	17,160	3	3	3
	IV	239.00	163.0	100	86.8	15,150	6	239.00	161.5	190	73.8	16,380	3	3	3	239.00	162.2	190	74.0	17,640	3	3	3
85'	III	254.00	173.0	100	85.6	15,430	6	254.00	171.5	190	74.5	16,650	3	3	3	254.00	172.2	190	74.7	17,910	3	3	3
	IV	254.00	173.0	100	90.4	15,900	6	254.00	171.5	190	77.4	17,130	3	3	3	254.00	172.2	190	77.6	18,390	3	3	3
90'	IV	269.00	183.0	100	94.0	16,810	6	269.00	181.5	190	81.0	18,040	3	3	3	269.00	182.2	190	81.2	19,300	3	3	3
95'	IV	284.00	193.0	100	97.6	17,560	6	284.00	191.5	190	84.6	18,780	3	3	3	284.00	192.2	190	84.8	20,050	3	3	3
100'	IV	299.00	203.0	100	101.1	18,460	6	299.00	201.5	190	88.2	19,690	3	3	3	299.00	202.2	190	88.4	20,950	3	3	3
105'	IV	314.00	213.0	190	105.8	19,350	6	314.00	211.5	290	92.9	20,580	3	3	3	314.00	212.2	290	93.1	21,840	3	3	3
	BT-72	329.00	223.0	380	125.6	21,040	6	329.00	221.5	560	109.5	22,500	3	3	3	329.00	222.2	560	109.7	23,760	3	3	3
110'	J	329.00	223.0	380	125.4	21,040	6	329.00	221.5	560	109.3	22,500	3	3	3	329.00	222.2	560	109.6	23,760	3	3	3
	BT-72	344.00	233.0	380	129.4	21,790	6	344.00	231.5	560	113.3	23,250	3	3	3	344.00	232.2	560	113.5	24,510	3	3	3
115'	J	344.00	233.0	380	129.2	21,790	6	344.00	231.5	560	113.1	23,250	3	3	3	344.00	232.2	560	113.4	24,510	3	3	3
	BT-72	359.00	243.0	380	133.2	22,810	6	359.00	241.5	560	117.1	24,150	3	3	3	359.00	242.2	560	117.3	25,410	3	3	3
120'	J	359.00	243.0	380	133.0	22,810	6	359.00	241.5	560	116.9	24,150	3	3	3	359.00	242.2	560	117.2	25,410	3	3	3
125'	J	374.00	253.0	380	136.8	23,570	6	374.00	251.5	560	120.7	24,900	3	3	3	374.00	252.2	560	121.0	26,170	3	3	3
130'	J	389.00	263.0	380	140.6	24,470	6	389.00	261.5	560	124.5	25,810	3	3	3	389.00	262.2	560	124.8	27,070	3	3	3
135'	J	404.00	273.0	380	144.4	25,220	6	404.00	271.5	560	128.3	26,560	3	3	3	404.00	272.2	560	128.6	27,820	3	3	3

- ① PRESTRESSED CONCRETE BEAM TYPE SHALL BE TYPE II, TYPE B, TYPE III, TYPE C, TYPE IV, TYPE 72 BT OR TYPE J BT AS APPLICABLE.
- ② QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
30' THRU 55' SPANS - NO LAP SPLICES
60' THRU 115' SPANS - 1 LAP SPLICE
120' THRU 135' SPANS - 2 LAP SPLICES
- ③ QUANTITY INCLUDES PROVISION FOR LAP SPLICES REQUIRED IN THE LONGITUDINAL REINFORCING STEEL AS FOLLOWS:
30' THRU 45' SPANS - 1/2 LAP SPLICE
50' THRU 65' SPANS - 1 LAP SPLICE
70' THRU 105' SPANS - 1 1/2 LAP SPLICES
110' THRU 135' SPANS - 2 LAP SPLICES
LAP SPLICES ACCOUNT FOR ADJACENT SPAN COMBINATIONS AND ARE APPROXIMATE. PAYMENT FOR "REINFORCING STEEL" WILL BE BASED ON PLAN QUANTITY.
- ④ AT THE ABUTMENTS, PROVIDE AND INSTALL FIXED BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS DETAILED IN THE PLANS. SEE SUMMARY FOR THE ESTIMATED TOTAL AMOUNT OF STRUCTURAL STEEL PER EACH FIXED BEARING ASSEMBLY. ALL COST OF PROVIDING AND INSTALLING THE FIXED BEARING ASSEMBLIES INCLUDING THE COST OF ANCHOR PLATES, ANCHOR BARS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "FIXED BEARING ASSEMBLY."
- ⑤ AT THE PIERS, PROVIDE AND INSTALL EXPANSION BEARING ASSEMBLIES OF THE SIZE, SHAPE AND LOCATION AS DETAILED IN THE PLANS. SEE SUMMARY FOR THE ESTIMATED TOTAL AMOUNT OF STRUCTURAL STEEL PER EACH EXPANSION BEARING ASSEMBLY. ALL COST OF PROVIDING AND INSTALLING THE EXPANSION BEARING ASSEMBLIES INCLUDING THE COST OF STEEL REINFORCED ELASTOMERIC BEARING PADS, ANCHOR PLATES, CONTACT PLATES, CONTACT ANGLES, ANCHOR BOLTS, NUTS, WASHERS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "EXPANSION BEARING ASSEMBLY."
- ⑥ PROVIDE AND INSTALL ELASTOMERIC BEARING PADS BETWEEN THE TOP SURFACE OF THE P.C. BEAMS AND THE BOTTOM SURFACE OF THE DECK SLAB. THE ELASTOMERIC BEARING PADS ARE TO BE OF THE SIZE AND SHAPE AS DETAILED IN THE PLANS AND LOCATED AT EACH BEAM END ABOVE THE PIERS. ALL COST OF PROVIDING AND INSTALLING THE ELASTOMERIC BEARING PADS INCLUDING THE COST OF ELASTOMERIC BEARING PADS, MATERIAL, LABOR, EQUIPMENT AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF "ELASTOMERIC BEARING PADS."

PRESTRESSED CONCRETE BEAM TYPE	SPAN	FIXED BEARING ASSEMBLY (LB)	EXPANSION BEARING ASSEMBLY (LB)
II AND B	30'	80	160
	35'	80	180
	40'	80	200
	45' THRU 60'	80	190
III AND C	60'	90	200
	65' THRU 85'	90	190
IV AND BT-72	80'	90	190
	85' AND 90'	90	190
	95' THRU 120'	90	190
J	110' THRU 135'	100	200

APPROVED BY BRIDGE ENGINEER *Robert J. Rusch* DATE *10/16/08*

OKLAHOMA DEPARTMENT OF TRANSPORTATION
COUNTY BRIDGE STANDARD (ENGLISH)

SUPERSTRUCTURE QUANTITIES
P.C. BEAMS
(SHEET NO. 1 OF 2)

26' CLEAR ROADWAY - INTEGRAL - SKEWED 0°

1999 STANDARD SPECIFICATIONS CB26-I-SKO-SPR-QUAN-PCB-1 OOE CB-515E